

From Problem Gambling to Gambling Harms: Moving to a New Framework

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Overview

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REVIEW ARTICLE



Charting a path towards a public health approach for gambling harm prevention

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Abstract

Aim Gambling harm is a serious public health issue affecting the health, financial security, and social well-being of millions of people and their close relations around the world. Despite its population health implications, gambling harm is not typically viewed and treated as a public health policy issue. This paper critically reviews the evolution of the public health perspective on gambling harm. It also considers how gambling harm can be operationalized within a public health model.

Methods A critical historical review of the emerging public health perspective on gambling harm was conducted. Key documents covering three decades of development were reviewed and appraised through a process of deliberation and debate over source impact in the fields of research, policy, and programming internationally.

Results The first decade mainly focused on identifying gambling harm and framing the public health issue. The second decade featured the expansion of health assessment and emerging areas of policy and program development. The third decade saw an increased focus on public health frameworks that advanced understanding of harm mechanics and impact. As reflected by the essential functions of a general public health model, gambling harm prevention efforts emphasize health promotion over other key functions like health assessment and surveillance.

Conclusion Gambling harm is a public health issue requiring greater attention to health assessment and surveillance data development.

Keywords Gambling harm · Public health model · Essential functions · Critical review · Health assessment · Surveillance

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Introduction

The development of modern public health models began nearly 200 years ago. This health service paradigm has significantly shaped how we prevent, prepare for, and treat human health conditions at an individual and population level. Gambling-related harms, however, have not gamered the same level of attention from these health service models as other acute and chronic health conditions. Despite these circumstances, the resources, knowledge, and skill sets embedded in public health systems and models may offer substantial benefits for addressing gambling harms.

Gambling harms constitute a serious public health issue. Worldwide, an estimated 0.1% to 5.8% of adult populations experience serious problems with gambling (Calado and Griffiths 2016). Although the health, economic, social, and personal harms of gambling are most severe among problem gamblers, they can extend across the risk spectrum (Blaszczynski 2009; Browne et al. 2016; Langham et al. 2016). Further, the impact of these harms affects not only



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Public Health: A Very Brief History

19th Century Europe

Biomedicine

- 1898: Liverpool School of Tropical Medicine
- 1899: London School of Hygiene and Tropical Medicine
- 1923: Dorland's Medical Dictionary
- 1950s → George Engel advocating for the social, psychological and behavioural aspects of health

Public Health

- Late 19th C. Europe, post-industrial revolution
- Urbanization, industrial production, increasing population density
- Food and water-borne Disease, other infectious diseases
- Focus on sanitation, food/water safety, development of vaccines and antibiotics, expansion of epidemiology and lab sciences







Public Health in the 20th Century (and beyond)

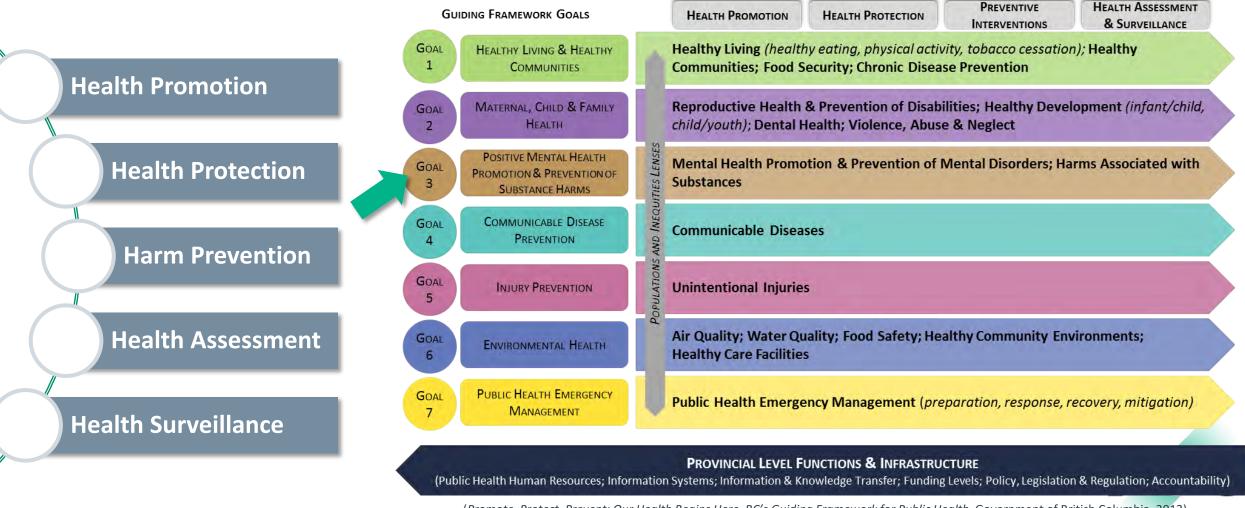
- Growing burden of chronic disease (CVD, cancers, diabetes, etc.)
- New emerging infectious diseases (HIV/AIDS, SARS, MERS, H1N1, COVID-19)
- Social determinants of health and essential functions of a public health system







Essential Functions of a Public Health System



Gambling Harm and Public Health

What's the harm in gambling?

- Globally prevalent activity with deep social and cultural value
- Harms can take the form financial insecurity, employment disruption, suicide, substance abuse, psychological disorders, and more
- Gambling harms can have distributed effects
- Historically viewed as individualized problems to be treated clinically

Does this sound familiar? (i.e., Tobacco and Alcohol)

- Now considered population and public health issues
- Upstream prevention to reduce downstream harms





First Decade: 1990-2000 Early Initiatives

New Zealand

1990: New Zealand National Survey of Problem and Pathological Gambling

 Key risk factors: Gender, age, ethnicity, employment status, having a family history of gambling, frequent engagement in continuous forms of gambling

1997: New Zealand Ministry of Health report on population mental health with chapter on problem gambling

PUBLIC HEALTH REPORT NUMBER 3

MENTAL HEALTH IN NEW ZEALAND FROM A PUBLIC HEALTH PERSPECTIVE

Edited by

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Disclaimer

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CHAPTER 21: PROBLEM GAMBLING

JANE CHETWYND

Until about 1980, there was little recognition of gambling as a health problem, experienced difficulties with gambling were seen to be lacking either will-power moral fibre to resist society's normal lemptations. There are clear parallels with the wawere viewed in the first part of the century when drunkenness was seen as an individ than a community problem.

We have now come to the point where gambling problems have received official reare definitions in the psychiatric textbooks, there are references to pathological gan key academic databases, and gambling is even included in the curriculum of most I However we are only very slowly recognising that gambling problems are public in they are affected by the community in which they occur and, in turn, the community

Gambling problems are now of particular concern to New Zealand because of the conin gambling and gambling opportunities in the last five years. Although in the past gaclosely regulated and controlled, recent changes in government policy have allowed of different forms of gambling opportunities and their wider availability. Some of the gambling, such as gaming machines, allow continuous gambling and, as such, the with greater risks of gambling problems (Allcock 1986).

DEFINITIONS

PATHOLOGICAL GAMBLING

One of the first important signs that gambling problems were beginning to be acknowled and significant health problems was their inclusion in the DSM-III in 1980 (APA) dedition describes the essential features of pathological gambling as 'persistent and recur gambling behaviour... that disrupts personal, family or vocational pursuits' (APA)

There are a variety of scales for assessing pathological gambling—including the South Screen (Lesieur and Blume 1987), the Cumulative Clinical Signs Method (Sommer DSM-IV Short Screen (Sullivan et al 1994)—which usually include questions concer occurring symptoms. Underlying each of these assessment scales is the recognition to gambling is a disorder of impulse control characterised by serious disruption to work or Studies of those seeking treatment have found high levels of distress and psychol depression, alcohol abuse and drug dependency are often comorbid conditions.



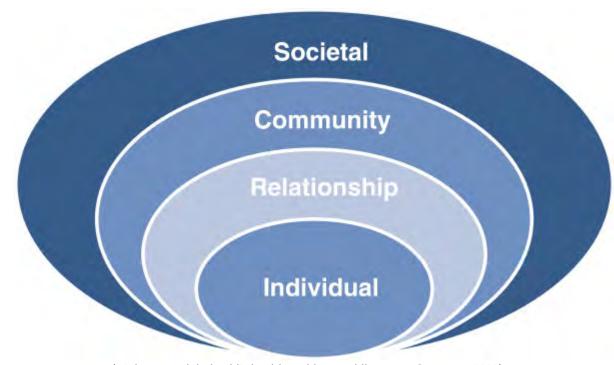


Australia

1991: First Australian survey of gambling-related problems using measures from the 1990 NZ survey

 Key risk factors: Personal and interpersonal distress, employment disruption, and financial and legal issues

Emerging PH perspective: A preventative approach to harms would highlight social structural factors (e.g., government and industry policy and practices, environmental factors such as game design, cultural and material factors)



(Violence: A global public health problem. Dahlberg, L.L. & Krug, E. 2002)

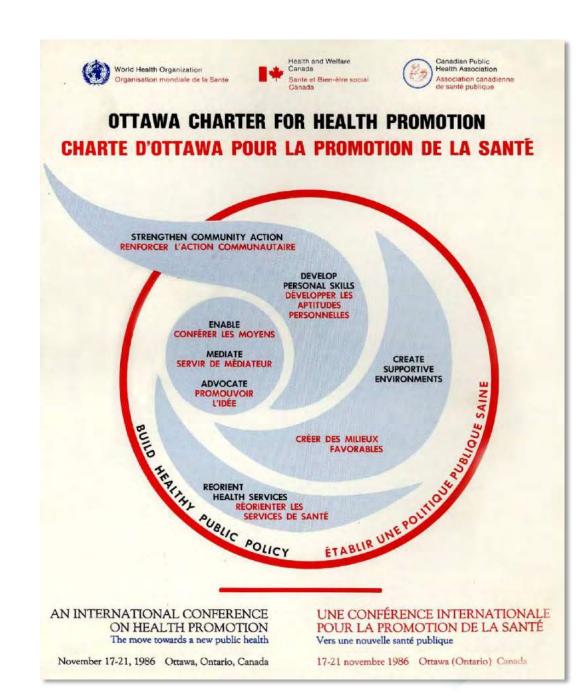


US and Canada

1994: Volberg, problem gambling epidemiologist, raises concerns over the unequal distribution of harm among women, children, and minorities

1998: Crockford and el-Guebaly comprehensively review psychiatric comorbidity studies and find high co-occurrence with substance use, personality and mood disorders.

1999: *Gambling and the Health of the Public.* Korn and Shaffer examine last decade of research and link to WHO Ottawa Charter for Health Promotion



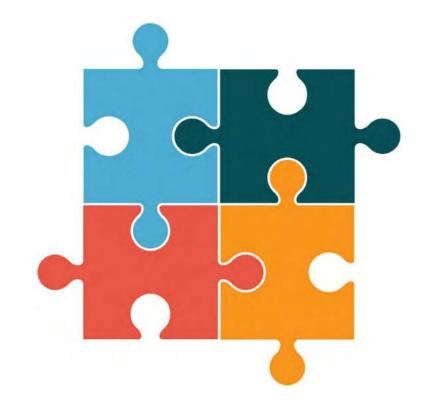
Second Decade: 2000-2010 Research and Policy Advances

2000 to 2005: Moving Towards Policy

Gambling-related HARM

- Multiple dimensions of harm
- Not exclusive to those most severely affected
- Not exclusive to individual gamblers

All of these core elements relate well to social determinants of health and a public health approach





2000 to 2005: Moving Towards Policy

2001: Problem Gambling Committee of NZ

2003: NZ Gambling Act

2004: Responsibility in Gambling Trust in UK

• 2005: AUS Ministerial Council on Gambling

2005: Gambling Research AUS



317 Integrated problem gambling strategy focused on public health

- (1) The Government may allocate responsibility for an integrated problem gambling strategy to a department, which need not be the Department responsible for this Act.
- (2) An integrated problem gambling strategy must include—
 - (a) measures to promote public health by preventing and minimising the harm from gambling; and

Gambling Act 2003

Public Act

2003 No 51

Date of assent

18 September 2003

Commencement

see section 2





Poll

Early in the second decade, in which jurisdiction was a community-based gambling and public health workplan developed to prevent and address gambling-related harm?

- 1. Australia
- 2. Great Britain
- 3. New Zealand
- 4. Canada





New Zealand! Te Ngira Gambling and Public Health workplan

- Community-based and community-first approach to addressing gambling and PH.
- Honours the bicultural nature of Māori and mainstream society, and other cultural strands that make up the country, e.g., Pacific Islanders and Asian.
- Developed a framework linked to signficant public health/health promotion models for each cultural group, from which shared values emerged.
- Integrated into a strengths-based framework of procedures involving multiple sectors for community health action for gambling.

Health promotion models:

- 1. Māori Te Pae Mahutonga including:
 - Access to Māori values
 - Environmental protection
 - Healthy lifestyles
 - Participation in society
 - Autonomy
 - Strong leadership
- 2. Mainstream culture the Ottawa Charter for Health Promotion (more on that later)





2006 and Onward: Prospective Data

- 2006-2011: Leisure, Lifestyle, Lifecycle Project (LLLP)
- 2008-2015: Swedish Long. Gambling Study (Swelogs)

- 2006-2011: Quinte Long. Study (QLS)
- 2010: Problem and Pathological Gambling Measure
- 2008-2011: Victorian Gambling Study (VGS) (PPGM)

Honourable Mentions

- 2012-2015: NZ National Gambling Study
- 2015-Present: Massachusetts Gambling Impact Cohort Study (MAGIC)

The goal of the MAGIC study is to uncover high-risk populations in Massachusetts and inform the development of effective and efficient prevention and treatment programming in the Commonwealth.

(The MA Gambling Impact Cohort: Analysis Across Three Waves. Mazar et al. 2019)





Third Decade: 2010-Present Framework Development

Conceptual Framework of Harmful Gambling (2013, 2015, 2018)

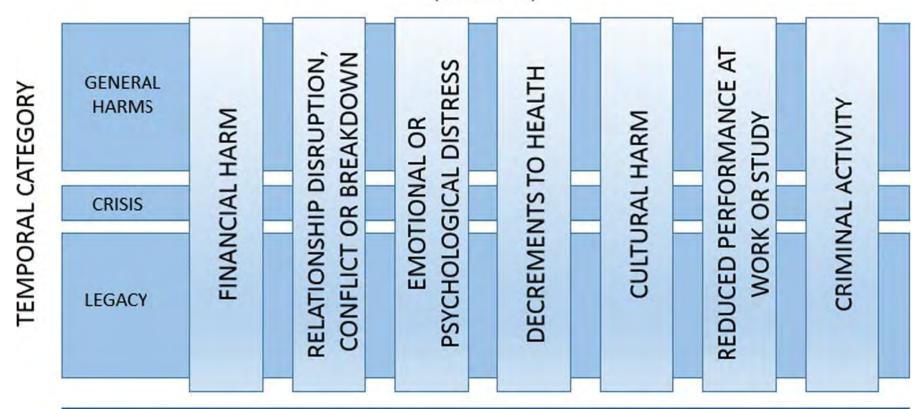




Conceptual Framework of Gambling-Related Harm (2016)

DIMENSIONS OF HARM

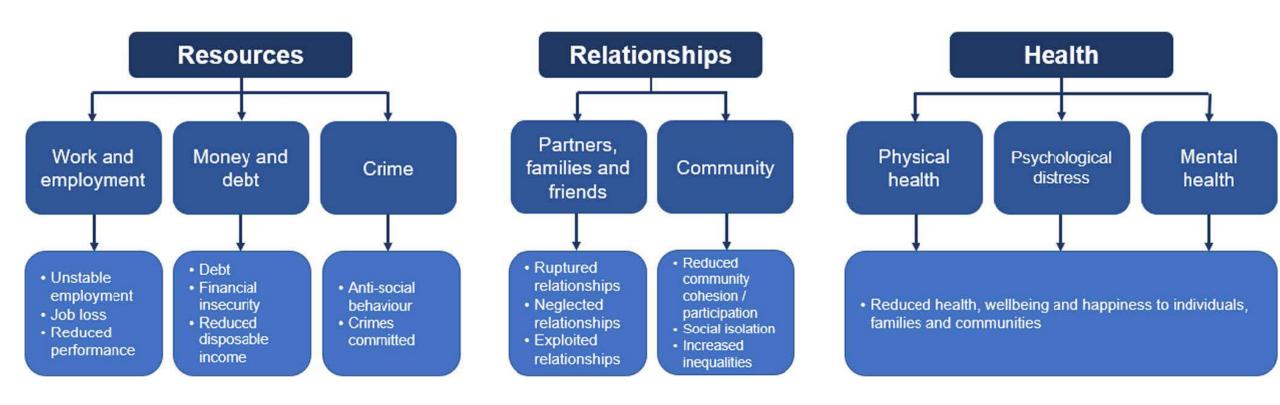
(classification)



LIFECOURSE, GENERATIONAL AND INTERGENERATIONAL HARM



Measuring Gambling-Related Harm: A Framework for Action (2018)







Operationalizing the Public Health Approach

Health Promotion

- Persuade people to adopt healthy lifestyles
- Provide information and incentives
- Focuses on individual choice
- A weak policy tool on its own

Responsible Gambling:

- Address risk and harm from gambling
- Empowered through educational materials, free services and tools, and service provider training



A. Schwarzenegger, Chairman of the President's Council on Fitness, 1990-1992





Health Protection

- Assess and control health hazards
- Emphasize broader structural tools and requirements
- Emergency management of immediate PH risks

Player Protection: Age restrictions, player registration, marketing restrictions, limits on availability, review of new games, prohibition on personal credit, mandatory limits



Harm Prevention and Minimization

- Primary prevention: before symptoms of harm manifest
- Secondary prevention: early symptoms of risk or harm
- Tertiary prevention: management and minimization of harm

Gambling Harm Prevention:

- P1 Student education (prevent/delay onset), limit setting
- **P2** Screening tests, VSE
- **P3** Counselling, financial blocks



(Image: City of Toronto)



Health Assessment

- Collection of population level health data for planning
- Inform policy and programming
- Power of prospective data collection

Impact of Gambling Health Assessment:

- NZ Gambling Act (2003)
- GRH Frameworks
- CAN Lower-Risk Gambling Guidelines

BRITISH MEDICAL JOURNAL

LONDON SATURDAY JUNE 26 1954

THE MORTALITY OF DOCTORS IN RELATION TO THEIR SMOKING HABITS

A PRELIMINARY REPORT

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In the last five years a number of studies have been sionary. In addition to giving their name, address, and made of the smoking habits of patients with and without lung cancer (Doll and Hill, 1950, 1952; Levin, Goldstein, and Gerhardt, 1950; Mills and Porter, 1950; Schrek, Baker, Ballard, and Dolgoff, 1950; Wynder and Graham, 1950; McConnell, Gordon, and Jones, 1952; Koulumies, 1953; Sadowsky, Gilliam, and Cornfield, 1953; Wynder and Cornfield, 1953; Breslow, Hoaglin, Rasmussen, and Abrams, 1954; Watson and Conte, 1954). All these studies agree in non-smokers among patients with lung cancer than among patients with other diseases. With one exception (the difference between the proportions of nonsmokers found by McConnell, Gordon, and Jones) these differences are large enough to be important. While, therefore, the various authors have all shown that there is an "association" between lung cancer and the amount of tobacco smoked, they have differed in their interpretation. Some have considered that the only reasonable explanation is that smoking is a factor in the production of the disease; others have not been prepared to deduce causation and have left the associa-

Further retrospective studies of that same kind would seem to us unlikely to advance our knowledge materially or to throw any new light upon the nature of the association. If, too, there were any undetected flaw in the evidence that such studies have produced, it would be exposed only by some entirely new approach. That approach we considered should be "prospective." It should determine the frequency with which the disease appeared, in the future, among groups of persons whose smoking habits were already known.

Method of Investigation

To derive such groups of persons with different smoking habits we wrote in October, 1951, to the members of the medical profession in the United Kingdom and asked them to fill in a simple ques-*O.E.D. Characterized by looking forward into the future. (Leigh Hunt: "He was a retrospective rather than a prospec-

age, the doctors were asked to classify themselves into one of three groups-namely, (a) whether they were, at that time, smoking; (b) whether they had smoked but had given up; or (c) whether they had never smoked regularly (that is, had never smoked as much as one eigarette a day, or its equivalent in pipe tobacco, for as long as one year). All present smokers and exsmokers were asked additional questions. The former were asked the ages at which they had started smoking showing that there are more heavy smokers and fewer and the amount of tobacco that they were smoking, and the method by which it was consumed, at the time of replying to the questionary. The ex-smokers were asked similar questions but relating to the time at which they had last given up smoking.

The questionary was intentionally kept short and simple in the hope of encouraging a high proportion of replies, without which the inquiry must have failed, In a covering letter the doctors were invited to give any information on their smoking habits or history which might be of interest, but, apart from that, no information was asked for about previous changes in habit (other than the amount smoked prior to last giving up. if smoking had been abandoned). It was, of course, realized that the habits of early adult life might well be more relevant to the development of a disease with a long induction period than the most recent habits. On the other hand, we regarded the procedure adopted as justified, not only because of the extreme difficulty of obtaining sufficiently accurate records of past smoking habits, but also because of the experience of our previous retrospective investigation (Doll and Hill, 1952). This investigation, in which nearly 5,000 patients were interviewed, had shown that the classification of smokers according to the amount that they had most recently smoked gave almost as sharp a differentiation between the groups of patients with and without lung cancer asthe use of smoking histories over many years-theoretically more relevant statistics, but clearly based on less

From their replies to the questionary the doctors were classified into broad groups according to age, the amount

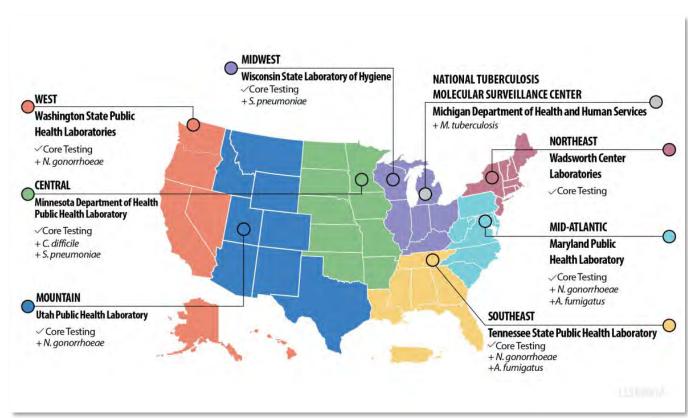
Doll, R., & Hill, A. B. (1954). The mortality of doctors in relation to their smoking habits; a preliminary report. British medical journal, 1(4877), 1451–1455. https://doi.org/10.1136/bmi.1.4877.1451

Health Surveillance

- Continuous data collection and monitoring
- Focus on rapid detection and response
- Supports health protection and emergency response

Surveillance in gambling:

- NZ Kupe data explorer
- Online operator data (potentially)



(Antibiotic Resistance Lab Network: https://www.cdc.gov/drugresistance/laboratories/AR-lab-network-testing-details.html)





Kupe data explorer

Kia ora! Welcome to Kupe your data explorer provided by Te Hiringa Hauora/Health Promotion Agency.

Kupe lets you explore New Zealanders' views and experiences across several topics of behaviours and attitudes.

The name, Kupe, is inspired by the chiefly Polynesian navigator and fisherman who, according to Māori oral tradition, discovered the islands of Aotearoa, New Zealand. After some difficulty catching fish off the coast of his homeland in Hawaiki, Kupe learnt of a giant wheke (octopus) eating the bait from his fishing hooks. Kupe set out to capture the troublesome octopus which led to a great pursuit across the Pacific Ocean, bringing Kupe and his followers to Aotearoa, New Zealand.

Release Alcohol Osc in New Ziestons 2015/00 (4

Choose a survey and subpopulation

Health and Lifestyles Survey HLS

All respondents



Alcohol →

New Zealanders' level of support for changes to help reduce alcohol-related problems, current consumption, and responses about cutting back how much they drink.



Eating →

The number of days in a week the main meal was prepared at home or bought from outside of home, and how often households eat their main meal together.



Gambling →

New Zealanders' views and experiences of gambling including participation, frequency of participation, harm, attitudes to harm, and gaming machines/pokles.



Māori cultural identity →

How important it is for Māori New Zealanders to be involved in things to do with Māori culture, and their ability to speak Māori in day-to-day conversations.



Mental health and wellbeing →

Results about feelings of isolation, mental illness diagnosis, experience with discrimination related to mental illness, and strength of connection to culture.



Sun exposure →

Number of times that New Zealanders got sunburnt during the previous spring and summer, protective behaviours to prevent sunburn, and skin checks for early detection of skin cancer.



Tobacco →

New Zealanders' current smoking status, quit attempts, levels of vaping/e-cigarette use, related opinions, and current use of cannabis.

(Source: https://kupe.hpa.org.nz)



Gaps and Opportunities

Gambling and Public Health: A Work in Progress

A lot has been achieved in 30 years

- Definitions of gambling harm
- Some prospective data collection
- Frameworks for policy and research

Balance across public health model not even

- Heavy emphasis on health promotion
- Evidence of health protection and harm prevention
- Health assessment and surveillance not extensive



Public health is still not a dominant paradigm for addressing gambling harm





Moving Forward

- Evidence is the foundation of the public health approach
- Shift in focus to upstream harm prevention
- Appreciation of distribution of harm and community health
- Collaboration and cross-sectoral partnerships

The more we know, the more we share, the more we can.



Thank You!

Questions, Comments, Keep in Touch:

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